Experiment Number: 99930-97
Test Type: SPECIAL STUDY
Route: DOSED FEED

Species/Strain: Rat/CD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Test Compound: Endocrine disruptor (Genistein)

una: Endocrine disruptor (Gen

CAS Number: 446-72-0

Date Report Requested: 10/17/2014 Time Report Requested: 12:41:39

First Dose M/F: NA / NA

Lab: NCTR

C Number: MG96005

Lock Date: Not Entered.

Cage Range: All

Date Range: All

Reasons For Removal:

Removal Date Range: All

Treatment Groups: All

Study Gender: Both

PWG Approval Date NONE

Route: DOSED FEED

Species/Strain: Rat/CD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/17/2014 Time Report Requested: 12:41:39

First Dose M/F: NA / NA

Lab: NCTR

CD Rat MALE	F2 0 PPM	F2 5 PPM	F2 100 PPM	F2 500 PP
Disposition Summary				
Animals Initially In Study	25	25	25	25
Early Deaths				
Survivors				
Terminal Sacrifice	25	25	25	25
Animals Examined Microscopically	25	25	25	25
ALIMENTARY SYSTEM				
Liver	(25)	(0)	(0)	(25)
Inflammation, Chronic	18 (72%)			22 (88%)
Malformation	1 (4%)			
Necrosis	1 (4%)			1 (4%)
Vacuolization Cytoplasmic	3 (12%)			2 (8%)
CARDIOVASCULAR SYSTEM				
None				
ENDOCRINE SYSTEM				
Adrenal Cortex	(25)	(0)	(0)	(25)
Accessory Adrenal Cortical Nodule	2 (8%)			
Vacuolization Cytoplasmic				1 (4%)
Adrenal Medulla	(25)	(0)	(0)	(25)
Pituitary Gland	(25)	(0)	(0)	(25)
Pars Distalis, Cyst	1 (4%)			
Pars Distalis, Cyst, Multiple	2 (8%)			1 (4%)
Pars Distalis, Vacuolization Cytoplasmic	3 (12%)			
	(25)	(0)	(0)	(25)

GENITAL SYSTEM

a - Number of animals examined microscopically at site and number of animals with lesion

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Experiment Number: 99930-97
Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Route: DOSED FEED
Species/Strain: Rat/CD

CAS Number: 446-72-0

Date Report Requested: 10/17/2014
Time Report Requested: 12:41:39

First Dose M/F: NA / NA

CD Rat MALE	F2 0 PPM	F2 5 PPM	F2 100 PPM	F2 500 PPM
Coagulating Gland	(24)	(25)	(24)	(24)
Epididymis	(25)	(25)	(25)	(25)
Degeneration				1 (4%)
Hypospermia			1 (4%)	1 (4%)
Infiltration Cellular, Lymphocyte	1 (4%)			
Prostate	(5)	(9)	(5)	(6)
Prostate, Dorsal Lobe	(25)	(25)	(25)	(25)
Epithelium, Hyperplasia			1 (4%)	
Inflammation, Chronic	7 (28%)	4 (16%)	6 (24%)	6 (24%)
Inflammation, Suppurative	4 (16%)	6 (24%)	8 (32%)	7 (28%)
Prostate, Ventral Lobe	(25)	(25)	(25)	(25)
Inflammation, Chronic	19 (76%)	15 (60%)	15 (60%)	17 (68%)
Inflammation, Suppurative	6 (24%)	2 (8%)	6 (24%)	5 (20%)
Rete Testes	(25)	(22)	(25)	(20)
Dilatation			2 (8%)	
Seminal Vesicle	(25)	(25)	(25)	(25)
Dilatation	1 (4%)	1 (4%)		2 (8%)
Epithelium, Hyperplasia		1 (4%)		
Inflammation, Chronic		1 (4%)	1 (4%)	
Testes	(25)	(25)	(25)	(24)
Seminif Tub, Degeneration	3 (12%)		2 (8%)	1 (4%)
HEMATOPOIETIC SYSTEM				
Bone Marrow	(25)	(0)	(0)	(25)
Spleen	(25)	(0)	(0)	(25)
Adventitia, Inflammation, Chronic	1 (4%)			
Hyperplasia, Stromal				1 (4%)
Pigmentation	5 (20%)			4 (16%)
Thymus	(25)	(0)	(1)	(25)
Atrophy			1 (100%)	

a - Number of animals examined microscopically at site and number of animals with lesion

Route: DOSED FEED

Species/Strain: Rat/CD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/17/2014
Time Report Requested: 12:41:39

First Dose M/F: NA / NA

CD Rat MALE	F2 0 PPM	F2 5 PPM	F2 100 PPM	F2 500 PPM
INTEGUMENTARY SYSTEM				
Mammary Gland	(24)	(25)	(25)	(25)
Alveolus, Hyperplasia	2 (8%)		7 (28%)	18 (72%)
Duct, Hyperplasia			1 (4%)	10 (40%)
Skin	(25)	(0)	(0)	(25)
MUSCULOSKELETAL SYSTEM				
Bone, Femur	(25)	(0)	(0)	(25)
NERVOUS SYSTEM				
None				
SPECIAL SENSES SYSTEM None URINARY SYSTEM				
	(25)	(25)	(25)	(25)
Kidney	(25)	(25) 1 (4%)	(25) 1 (4%)	(25) 1 (4%)
	(25)	1 (4%)	(25) 1 (4%)	(25) 1 (4%)
Kidney Capsule, Fat, Cyst Casts Protein	(25)	1 (4%) 2 (8%)		1 (4%)
Kidney Capsule, Fat, Cyst	(25) 20 (80%)	1 (4%)		
Kidney Capsule, Fat, Cyst Casts Protein Cortex, Cyst	` '	1 (4%) 2 (8%) 1 (4%)	1 (4%)	1 (4%)
Kidney Capsule, Fat, Cyst Casts Protein Cortex, Cyst Inflammation, Chronic	` '	1 (4%) 2 (8%) 1 (4%)	1 (4%)	1 (4%) 2 (8%) 23 (92%)
Kidney Capsule, Fat, Cyst Casts Protein Cortex, Cyst Inflammation, Chronic Pelvis, Dilatation	20 (80%)	1 (4%) 2 (8%) 1 (4%) 16 (64%)	1 (4%)	1 (4%) 2 (8%) 23 (92%) 1 (4%)
Kidney Capsule, Fat, Cyst Casts Protein Cortex, Cyst Inflammation, Chronic Pelvis, Dilatation Renal Tubule, Dilatation	20 (80%)	1 (4%) 2 (8%) 1 (4%) 16 (64%)	1 (4%) 16 (64%) 5 (20%)	1 (4%) 2 (8%) 23 (92%) 1 (4%) 6 (24%)

^{***}END OF MALE DATA***

a - Number of animals examined microscopically at site and number of animals with lesion

Route: DOSED FEED

Species/Strain: Rat/CD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/17/2014 Time Report Requested: 12:41:39

First Dose M/F: NA / NA

CD Rat FEMALE	F2 0 PPM	F2 5 PPM	F2 100 PPM	F2 500 PPM
Disposition Summary				
Animals Initially In Study	25	25	25	25
Early Deaths				
Survivors				
Terminal Sacrifice	25	25	25	25
Animals Examined Microscopically	25	25	25	25
ALIMENTARY SYSTEM				
Liver	(25)	(2)	(0)	(25)
Bile Duct, Inflammation				1 (4%)
Developmental Malformation		2 (100%)		1 (4%)
Inflammation, Chronic Active, Focal				1 (4%)
Median Lobe, Developmental Malformation	1 (4%)			1 (4%)
Necrosis, Focal				1 (4%)
Pancreas	(1)	(0)	(0)	(0)
CARDIOVASCULAR SYSTEM				
None				
ENDOCRINE SYSTEM				
Adrenal Cortex	(25)	(0)	(0)	(25)
Adrenal Medulla	(25)	(0)	(0)	(25)
Pituitary Gland	(25)	(0)	(0)	(25)
Thyroid Gland	(25)	(0)	(0)	(25)
Cyst				1 (4%)
GENERAL BODY SYSTEM				
None				
GENITAL SYSTEM				
Ovary	(25)	(25)	(25)	(25)
Cyst	` '	, ,	, ,	1 (4%)

a - Number of animals examined microscopically at site and number of animals with lesion

Route: DOSED FEED

Species/Strain: Rat/CD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/17/2014 Time Report Requested: 12:41:40

First Dose M/F: NA / NA

Lab: NCTR

CD Rat FEMALE	F2 0 PPM	F2 5 PPM	F2 100 PPM	F2 500 PPN
Diestrus	7 (28%)	6 (24%)	6 (24%)	6 (24%)
Estrus	5 (20%)	7 (28%)	6 (24%)	2 (8%)
Metestrus	6 (24%)	4 (16%)	6 (24%)	7 (28%)
Proestrus	7 (28%)	8 (32%)	7 (28%)	10 (40%)
Oviduct	(25)	(25)	(25)	(25)
Uterus	(25)	(25)	(25)	(25)
Decidual Reaction	24 (96%)	24 (96%)	24 (96%)	22 (88%)
Diestrus	7 (28%)	6 (24%)	6 (24%)	6 (24%)
Estrus	5 (20%)	7 (28%)	6 (24%)	2 (8%)
Metestrus	6 (24%)	4 (16%)	6 (24%)	7 (28%)
Proestrus	7 (28%)	8 (32%)	7 (28%)	10 (40%)
Vagina	(24)	(23)	(24)	(23)
Diestrus	7 (29%)	6 (26%)	6 (25%)	6 (26%)
Estrus	6 (25%)	8 (35%)	8 (33%)	2 (9%)
Metestrus	6 (25%)	4 (17%)	6 (25%)	7 (30%)
Proestrus	5 (21%)	5 (22%)	4 (17%)	8 (35%)
HEMATOPOIETIC SYSTEM				
Bone Marrow	(25)	(0)	(0)	(25)
Spleen	(25)	(0)	(0)	(25)
Thymus	(25)	(0)	(0)	(25)
NTEGUMENTARY SYSTEM				
Mammary Gland	(24)	(25)	(25)	(25)
Alveolus, Hyperplasia	18 (75%)	15 (60%)	16 (64%)	21 (84%)
Skin	(25)	(0)	(0)	(25)
MUSCULOSKELETAL SYSTEM				
Bone, Femur	(25)	(0)	(0)	(25)

NERVOUS SYSTEM

None

a - Number of animals examined microscopically at site and number of animals with lesion

Route: DOSED FEED

Species/Strain: Rat/CD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/17/2014 Time Report Requested: 12:41:40

First Dose M/F: NA / NA

CD Rat FEMALE	F2 0 PPM	F2 5 PPM	F2 100 PPM	F2 500 PPM
RESPIRATORY SYSTEM None				
SPECIAL SENSES SYSTEM None				
URINARY SYSTEM				
Kidney	(25)	(25)	(25)	(25)
Bilateral, Cyst		1 (4%)		
Cyst		2 (8%)	2 (8%)	2 (8%)
Infarct				1 (4%)
Inflammation, Chronic Active		2 (8%)	2 (8%)	
Mineralization	20 (80%)	21 (84%)	23 (92%)	19 (76%)
Parenchym Cell, Proliferation, Focal		1 (4%)		
Pelvis, Dilatation		1 (4%)		
Renal Tubule, Dilatation, Focal			1 (4%)	

^{**} END OF REPORT **